

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/010948

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl' G11B20/10, G06F3/06, G06F3/08

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
Int.Cl' G11B20/10, G11B20/18, G06F3/06, G06F3/08

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

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Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP 8-124365 A (Pioneer Electronic Corp.), 17 May, 1996 (17.05.96), Column 9, line 24 to column 15, line 37; Figs. 1 to 5 & <u>US 5687150 A</u>	1-9, 15-23, 29-37
Y	JP 11-110915 A (Sony Corp.), 23 April, 1999 (23.04.99), Column 2, line 28 to column 3, line 13; column 8, line 49 to column 9, line 30; Figs. 1 to 3, 7, 8 & EP 905692 A1 & <u>US 6330214 B1</u> & EP 1365401 A1 & <u>US 6388968 B1</u>	1-5, 9-19, 23-33, 37-42

 Further documents are listed in the continuation of Box C. See patent family annex.

* Special categories of cited documents:	
"A"	document defining the general state of the art which is not considered to be of particular relevance
"E"	earlier application or patent but published on or after the international filing date
"L"	document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
"O"	document referring to an oral disclosure, use, exhibition or other means
"P"	document published prior to the international filing date but later than the priority date claimed
"T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"X"	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"Y"	document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"&"	document member of the same patent family

Date of the actual completion of the international search
30 September, 2004 (30.09.04)Date of mailing of the international search report
19 October, 2004 (19.10.04)Name and mailing address of the ISA/
Japanese Patent Office

Authorized officer

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PCT/JP2004/010948

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP 2001-236730 A (Ricoh Co., Ltd.), 31 August, 2001 (31.08.01), Column 10, line 31 to column 12, line 23; Figs. 1 to 4 (Family: none)	1-5,9-19, 23-33,37-42
Y	JP 2000-67518 A (Sony Corp.), 03 March, 2000 (03.03.00), Column 7, line 33 to column 13, line 6; Figs. 1 to 7 & <u>US 6661964 B1</u>	1-5,9-19, 23-33,37-42
Y	JP 2002-51288 A (Sony Corp.), 15 February, 2002 (15.02.02), Column 10, line 32 to column 11, line 38; Figs. 1 to 9 (Family: none)	1-5,9-19, 23-33,37-42
Y	JP 2003-209781 A (Hitachi, Ltd.), 25 July, 2003 (25.07.03), Column 7, line 24 to column 9, line 39; Figs. 1 to 5 & <u>US 2003/133542 A1</u>	1-42
Y	JP 5-135548 A (Casio Computer Co., Ltd.), 01 June, 1993 (01.06.93), Column 5, line 40 to column 6, line 21; Figs. 1, 10	1-42
Y	JP 11-120690 A (Matsushita Electric Industrial Co., Ltd.), 30 April, 1999 (30.04.99), Column 8, line 13 to column 11, line 34; Figs. 1 to 4 (Family: none)	1-42
Y	JP 2001-298704 A (Sony Corp.), 26 October, 2001 (26.10.01), Column 22, line 3 to column 23, line 7; Figs. 12, 13 (Family: none)	1-42
Y	JP 7-93912 A (Nikon Corp.), 07 April, 1995 (07.04.95), Full text; Figs. 1 to 4 (Family: none)	7,21,35
Y	JP 8-106722 A (Nikon Corp.), 23 April, 1996 (23.04.96), Column 3, line 38 to column 4, line 3; Figs. 1, 2 (Family: none)	7,21,35

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/010948

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP 11-250577 A (Sony Corp.), 17 September, 1999 (17.09.99), Column 6, line 19 to column 7, line 18; column 10, lines 9 to 34; Figs. 1, 4, 7, 8 (Family: none)	13, 27, 41